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BEST AVAILABLE COPY(21)Application number : **03-023253**(71)Applicant : **DOW CORNING CORP**(22)Date of filing : **18.02.1991**

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(30)Priority

Priority number : **90 483525** Priority date : **22.02.1990** Priority country : **US****(54) PRECURSOR MATERIAL POLYMER FOR CERAMIC COATING****(57)Abstract:**

PURPOSE: To provide a manufacturing method of a soluble resinous hydrolyzate contg. a polymer comprising a unit shown by the formula $\text{HSi}(\text{OH})_x(\text{OR})_y\text{Oz}/2$ by hydrolyzing hydride silane, such as triethoxy silane, shown by the formula $\text{Hsi}(\text{OR})_3$.
CONSTITUTION: This method of manufacturing a soluble resinous hydrolyzate by hydrolyzing hydride silane shown by formula $\text{HSi}(\text{OR})_3$ is a method of hydrolyzing the hydride silane contg. a process of making a mixture by combining components comprising the hydride silane, an oxygen contg. polar organic solvent like an alcohol such as ethanol, etc., water, and hydrogen chloride, then, heating the hydride silane at 40-100°C for 0.1-24 hr to promote the hydrolysis of the hydride silane. Further, the manufactured soluble hydrolyzate and a method of forming a protective coating and an inductive coating between the levels of multi-layered device by coating the hydrolyzate on various materials including electronic devices.

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JP4216827A2: PRECURSOR POLYMER FOR CERAMIC COATING

No Image

INPADOC Record

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Country: **JP Japan**
 Kind: **A2 Document Laid Open to Public Inspection**
 Inventor(s): **RONARUDO HAWAADO BANII
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Family:

Patent	Issued	Filed	Title
NL443760R3	March 11, 1992		
NL443760R2	Aug. 28, 1991		
JP4216827A2	Aug. 6, 1992	Feb. 18, 1991	PRECURSOR POLYMER FOR CERAMIC COATING
IT443760R3	March 11, 1992		
IT443760R2	Aug. 28, 1991		
GB443760R3	March 11, 1992		
GB443760R2	Aug. 28, 1991		
FR443760R3	March 11, 1992		
FR443760R2	Aug. 28, 1991		
ES443760R3	March 11, 1992		

ES443760R2	Aug. 28, 1991		
EP443760A3	March 11, 1992	Feb. 12, 1991	Precursor polymer for ceramic coatings
EP443760A2	Aug. 28, 1991	Feb. 12, 1991	Precursor polymer for ceramic coatings
DE443760R3	March 11, 1992		
DE443760R2	Aug. 28, 1991		
CA2035367AA	Aug. 23, 1991	Jan. 31, 1991	PRECURSOR POLYMER FOR CERAMIC COATINGS
BE443760R3	March 11, 1992		
BE443760R2	Aug. 28, 1991		
18 family members shown above			

Other Abstract Info:

CHEMABS 115(22)234883K DERABS C91-254344

Foreign References:

(No patents reference this one)



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(54)【発明の名称】セラミックコーティング用先駆物質ポリマー

(57)【要約】(修正有)

【目的】トリエトキシシラン等の式 $\text{HSi}(\text{OR})_3$ で表されるヒドリドシランを加水分解して、式 $\text{HSi}(\text{OH})_3(\text{OR})_2$, $\text{HSi}(\text{OH})_2(\text{OR})_3$, $\text{HSi}(\text{OH})_3$ で表される単位を有するポリマーを含んでなる可溶性樹脂状水解物を形成する方法を提供する。

【構成】式 $\text{HSi}(\text{OR})_3$ で表わされるヒドリドシランを加水分解して可溶性樹脂状水解物を作る方法が、該ヒドリドシラン、エタノール等のアルコールの如き酸素含有極性有機溶剤、水及び塩化水素等の酸を含んでなる成分を組合せて混合物を作り、そして該ヒドリドシランを40~100°Cで0.1~24時間加熱して混合物中の該ヒドリドシランの加水分解を促進する工程を含んでなる前記ヒドリドシランを加水分解する方法。更に生成した可溶性水解物と、該水解物を用いて電子デバイスを含む種々の基材にコーティングを施して保護被膜又は多層デバイスのレベル間誘導性被膜を形成する方法。

* If this abstract is essential, please let us know.